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Vice President, Portfolio Development and Review
Grants Working Group DISC2 Review
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Mission Statement



OUR MISSION

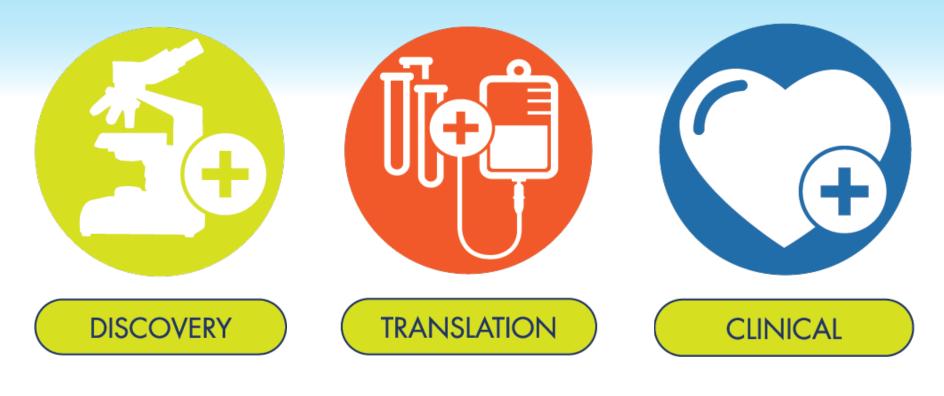
Accelerating world class science to deliver transformative regenerative medicine treatments in an equitable manner to a diverse California and world





Recurring Programs





New Idea



Single Product Candidate



Pre-IND or Equivalent



Approved Therapy



CIRM Quest Discovery Program



Objective

The Quest Program will promote the discovery of promising new stem cell-based and gene therapy technologies that could be <u>translated to enable broad use</u> and ultimately, improve patient care.

Projects funded through the Quest Awards should propose technology that is uniquely enabled by human stem/progenitor cells or uniquely enabling for the advancement of stem cell-based therapies or aimed at developing a gene therapy approach.



What are we looking for?



Candidate Type

Therapeutic

Diagnostic/Device/Tool

Expected
Outcomes
for a two-year
or three-year
project

Single candidate identified

Target Product Profile drafted

Disease modifying activity demonstrated Candidate prototype identified

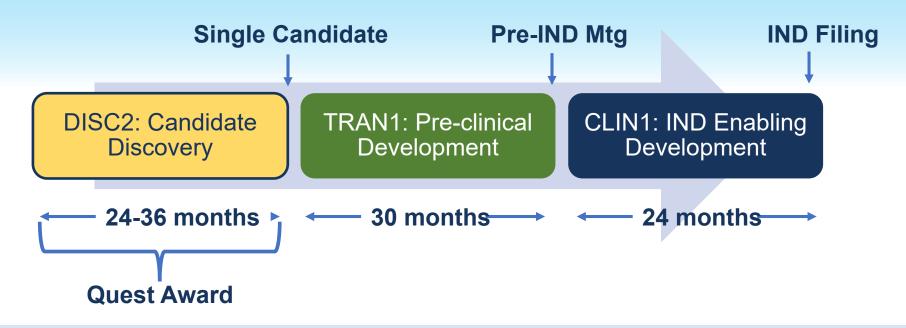
Target Product Profile drafted

Scientific proof-ofconcept demonstrated



Accelerating Therapeutic Development





Expected **outcomes** of DISC2 applications:

- A single candidate ready for translational studies identified.
- A Target Product Profile developed.
- Demonstration of disease-modifying activity or proof of concept.



CIRM Board members with Conflicts of Interest



Board members with Conflicts of Interest for DISC applications			
Haifaa Abdulhaq	Larry Goldstein		
Kim Barrett	James Kovach		
Michael Botchan	Pat Levitt		
Linda Boxer	Linda Malkas		
George Blumenthal	Shlomo Melmed		
Ysabel Duron	Christine Miaskowski		
Elena Flowers	Michael Stamos		
Mark Fischer-Colbrie	Karol Watson		
Judy Gasson			



Positive Selection (Two-Stage) Review Process



- Performed when the total number of applications exceeds the capacity of the GWG to review in a single session.
- In the first stage, GWG members including patient advocates and nurse Board Members conduct a pre-review of applications and select which ones to advance to a full review.
- The CIRM President and CIRM will examine non-selected applications to determine if any merit a full review. The remainder are not considered further.
- A total of 54 eligible applications were submitted, 8 bypassed the process with a previous 80-84 score, and a total of 46 advanced to the full discussion stage by GWG.



Scoring System for DISC2 Applications



Score of "85-100"

Recommended for funding, if funds are available

Score of "80-84"

Not recommended for funding

Applications receiving a score of **80-84** in this review cycle were deemed by the GWG to have sufficient merit to bypass the positive selection process and advance to full scientific review if resubmitted in the next review cycle

Score of "1-79"

Not recommended for funding

Applications are scored by all scientific members of the GWG with no conflict.

The **median** of all individual GWG scores determines final score.





- Does the project hold the necessary significance and potential for impact? (i.e., what value does it offer; is it worth doing?)
- 2. Is the rationale sound? (i.e., does it make sense?)
- 3. Is the project well planned and designed?
- 4. Is the project feasible? (i.e., can they do it?)
- 5. Does the project address the needs of underserved communities?



GWG Recommendations Summary



	Number of Apps	Total Applicant Request	Funds Available
Recommended for funding Score 85-100	14	\$28,658,837	\$106,000,000
Not recommended for funding Score 1-84	32		

For each award, the final award amount shall not exceed the amount approved by the ICOC Application Review Subcommittee and may be reduced contingent on CIRM's assessment of allowable costs and activities.





- Under Prop 14, any application that is not recommended for funding by the GWG, but which had 35% or more members score to fund the application must include a minority report.
- The minority report is included in the review summary and provides a brief synopsis of the opinion of reviewers that scored the application 85 or above.



Applications with a Minority Report



App Number	Title	Funds Requested	Score
DISC2-14047	A Novel Therapy for Sanfilippo B	\$2,297,884	84
DISC2-14097	In Utero Treatment of Duchenne Muscular Dystrophy with Non-viral Gene Editing	\$2,035,544	83
DISC2-14089	Chemically engineered photoreceptors for vision restoration in retinal degeneration associated blindness	\$1,845,093	83





Minority Report for DISC2-14047



Score		Num <85 (Do not fund)		Funds Requested
84	6	8	80-90	\$2,297,884

TITLE: A Novel Therapy for Sanfilippo B

DISEASE INDICATION: Sanfilippo B

PRODUCT TYPE: Cell and gene therapy

APPROACH: Embryonic stem cell-derived neural progenitor cells engineered to overexpress the missing enzyme and correct the neuropathology associated with this disease.



Minority Report for DISC2-14097



Score	Num <u>></u> 85 (Fund)	Num <85 (Do not fund)	Range	Funds Requested
83	6	8	80-87	\$2,035,544

TITLE: In Utero Treatment of Duchenne Muscular Dystrophy with Non-viral Gene Editing

DISEASE INDICATION: Duchenne muscular dystrophy

PRODUCT TYPE: Genetic therapy

APPROACH: Develop a lipid nanoparticle/mRNA complex that can safely and efficiently edit muscle stem cells in utero



Minority Report for DISC2-14089



Score	Num <u>></u> 85 (Fund)	Num <85 (Do not fund)	Range	Funds Requested
83	7	7	65-90	\$1,845,093

TITLE: Chemically engineered photoreceptors for vision restoration in retinal degeneration associated blindness

DISEASE INDICATION: Retinal degeneration associated blindness

PRODUCT TYPE: Cell therapy

APPROACH: Develop a chemically-induced photoreceptor cell created by reprogramming skin fibroblasts for transplant in the retina